ENSTALL

Project plan

Cobbett House ,

Roof 1



Location: Cobbett House Manchester Royal Infirmary, Oxford Rd, Manchester M13 9WL, UK

Calculation date: 01-05-2026

FlatFix Fusion

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Disclaimer **38**

Scan the code for the product manual.

Overview

General

Customer	Revolution Energy Services
Contact person	Andy
Generated by	Brad Hatt (brad.hatt@rubiconsa.com)*

* This person can open this project in the calculator via https://calculator.eu.enstall.com/3313522/4305279.

Location

Address	Cobbett House Manchester Royal Infirmary, Oxford Rd, Manchester M13 9WL, UK
Basic wind speed ($v_{b,map}$)	22.5 m/s*
Fundamental value of basic wind speed	23.4 m/s
Terrain category	Town*
Distance to coast	40.0 km*
Distance to city boundary	4.0 km (calculated with 4.0 km)*
Wind pressure	644.75 N/m²
Snow zone	3*
Characteristic value of snow on the ground	0.39 kN/m²
Snow load on the roof	391.43 N/m²
Altitude above sea level	43.0 m*
Consequence class	CC2
Reference period	15 years
Calculation date	01-05-2026

* Automatically determined based on the address.

Roof specification

Roof height	14.0 m
Parapet height	900 mm
Edge zone depth	2.98 m
Roof pitch	0.0°
Roofing material	Bitumen insulated
Roof orientation from north	-22.0°

System specification

Panel model	JAM60D-42-530-LB-TS-BF
Panel dimensions	2063 mm x 1134 mm x 30 mm

Panel weight	28.8 kg
Panel count	158
Panel angle of inclination landscape	11.3°
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF
Segment count	8
Panel power	530 Wp
Total power	83.740 kWp

Complete list of materials

Total roof bill of materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	106
1000655	Mounting screw M6 x 55mm	424
1003022	Universal mid clamp with bonding	208
1004330	FlatFix end clamp 30mm	216
1007011	FlatFix Fusion base plate bracket	91
1007012	FlatFix Fusion base plate	434
1007022	FlatFix Fusion - Low base	212
1007031	FlatFix Fusion high base	106
1007042*	MLPE Clip Lightweight up to 2kg	158
1007086	FlatFix Fusion ballast container 2000	74
1007087	FlatFix Fusion stabilizer 2000**	79
1007137	FlatFix Fusion base profile 370mm	64
1007196	FlatFix Fusion base profile 1077mm	212
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	54
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	54
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	398

* Optional article

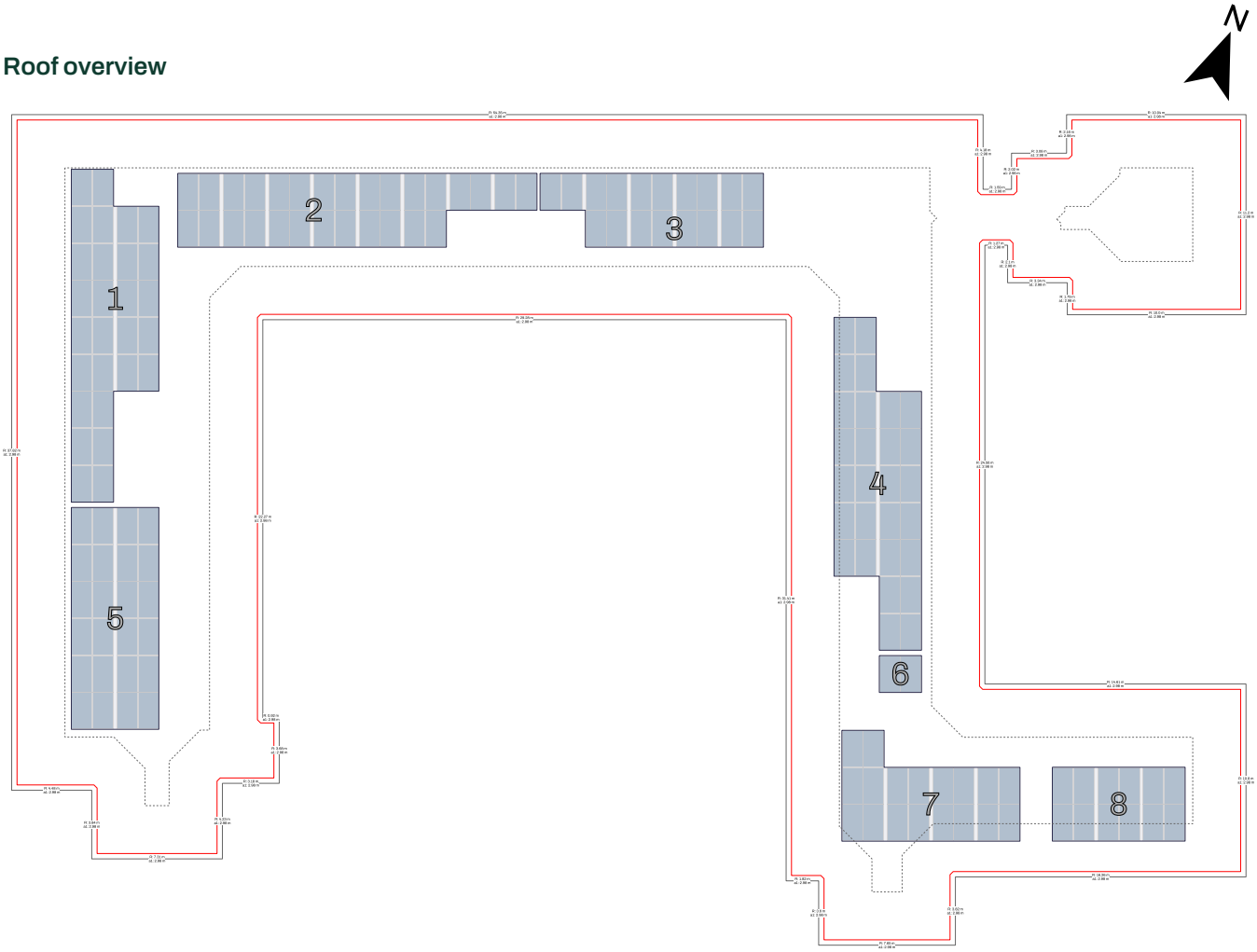
** Discontinued item, available while stocks last.

Number of ballast units

Number of bricks (210 mm x 105 mm x 80 mm, 4.0 kg/pc)	1024

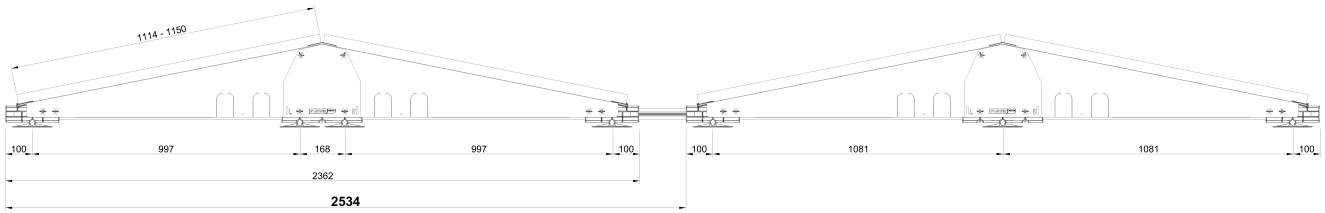
Assembly

Roof overview

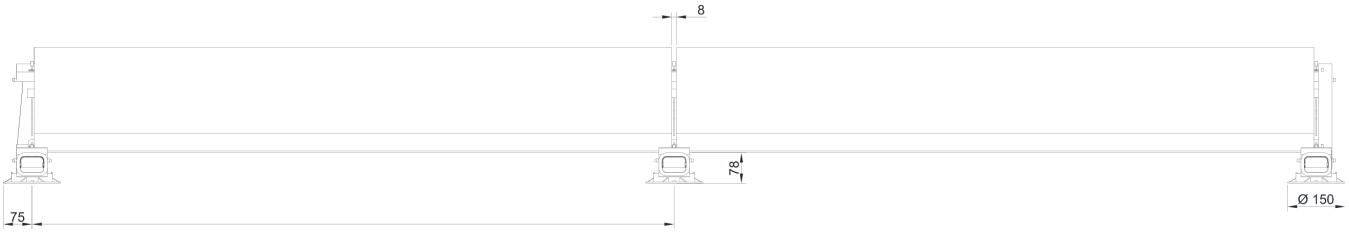


R: XXm	Length of outer roof side
	No-Go zone width (30cm)
a1: XXm	Edge zone width from roof edge

Dual landscape configuration with row distance of 2,534 mm

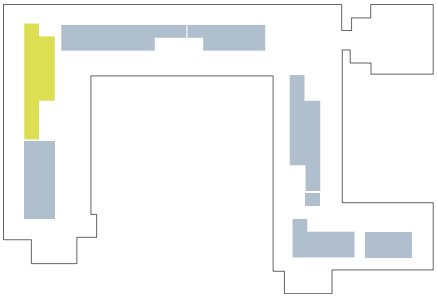


Rear view



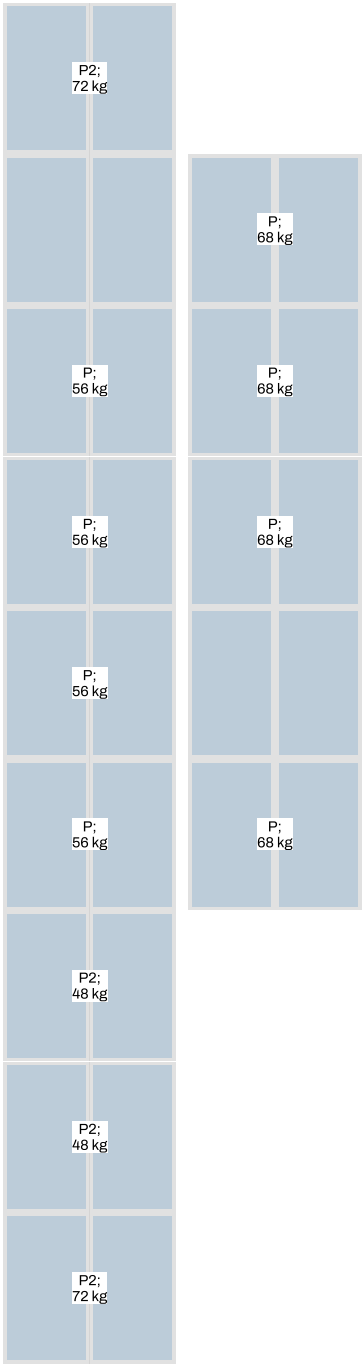
Segment 1

Panel count	28
Total power	14.840 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

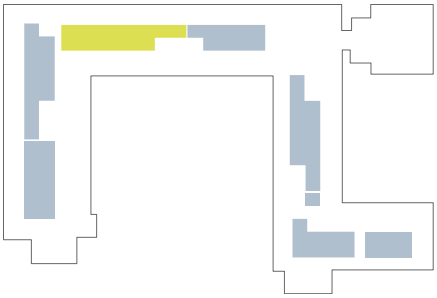
Weight per ballast unit	4.0 kg
Number of ballast units	184

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	16
1000655	Mounting screw M6 x 55mm	64
1003022	Universal mid clamp with bonding	48
1004330	FlatFix end clamp 30mm	16
1007011	FlatFix Fusion base plate bracket	22
1007012	FlatFix Fusion base plate	70
1007022	FlatFix Fusion - Low base	32
1007031	FlatFix Fusion high base	16
1007042	MLPE Clip Lightweight up to 2kg	28
1007086	FlatFix Fusion ballast container 2000	16
1007087	FlatFix Fusion stabilizer 2000	14
1007137	FlatFix Fusion base profile 370mm	6
1007196	FlatFix Fusion base profile 1077mm	32
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	4
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	4
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	60

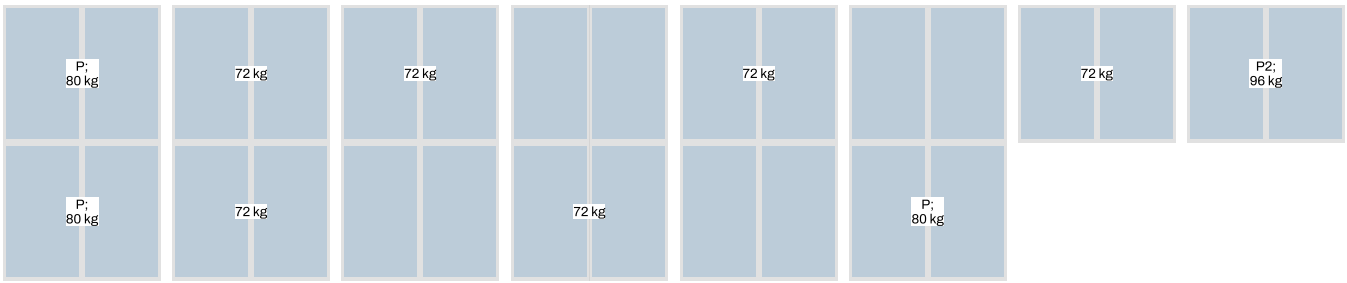
Segment 2

Panel count	28
Total power	14.840 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

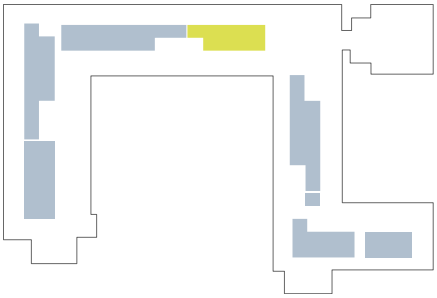
Weight per ballast unit	4.0 kg
Number of ballast units	192

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	22
1000655	Mounting screw M6 x 55mm	88
1003022	Universal mid clamp with bonding	24
1004330	FlatFix end clamp 30mm	64
1007011	FlatFix Fusion base plate bracket	7
1007012	FlatFix Fusion base plate	86
1007022	FlatFix Fusion - Low base	44
1007031	FlatFix Fusion high base	22
1007042	MLPE Clip Lightweight up to 2kg	28
1007086	FlatFix Fusion ballast container 2000	11
1007087	FlatFix Fusion stabilizer 2000	14
1007137	FlatFix Fusion base profile 370mm	19
1007196	FlatFix Fusion base profile 1077mm	44
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	16
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	16
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	78

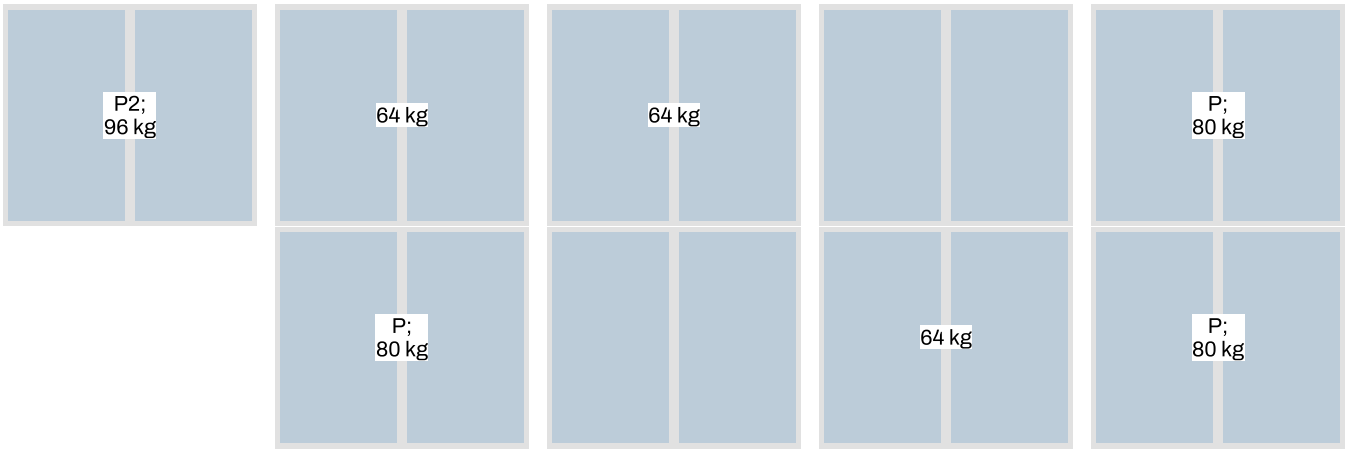
Segment 3

Panel count	18
Total power	9.540 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

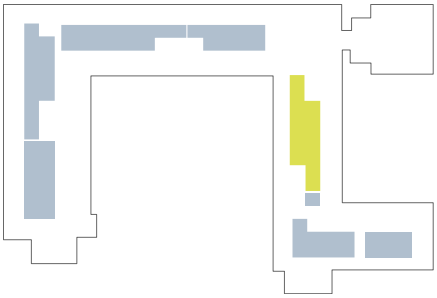
Weight per ballast unit	4.0 kg
Number of ballast units	132

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	14
1000655	Mounting screw M6 x 55mm	56
1003022	Universal mid clamp with bonding	16
1004330	FlatFix end clamp 30mm	40
1007011	FlatFix Fusion base plate bracket	7
1007012	FlatFix Fusion base plate	57
1007022	FlatFix Fusion - Low base	28
1007031	FlatFix Fusion high base	14
1007042	MLPE Clip Lightweight up to 2kg	18
1007086	FlatFix Fusion ballast container 2000	8
1007087	FlatFix Fusion stabilizer 2000	9
1007137	FlatFix Fusion base profile 370mm	11
1007196	FlatFix Fusion base profile 1077mm	28
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	10
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	10
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	54

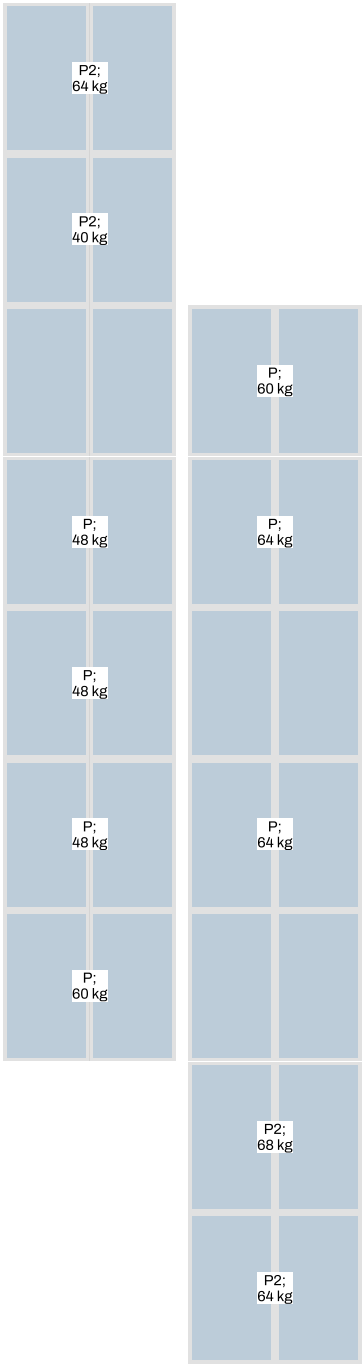
Segment 4

Panel count	28
Total power	14.840 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

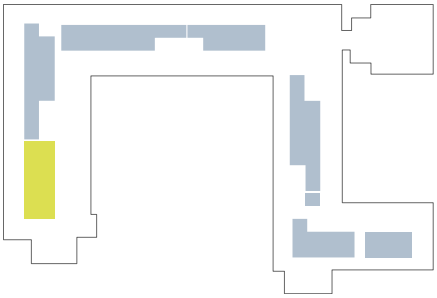
Weight per ballast unit	4.0 kg
Number of ballast units	157

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	16
1000655	Mounting screw M6 x 55mm	64
1003022	Universal mid clamp with bonding	48
1004330	FlatFix end clamp 30mm	16
1007011	FlatFix Fusion base plate bracket	22
1007012	FlatFix Fusion base plate	70
1007022	FlatFix Fusion - Low base	32
1007031	FlatFix Fusion high base	16
1007042	MLPE Clip Lightweight up to 2kg	28
1007086	FlatFix Fusion ballast container 2000	15
1007087	FlatFix Fusion stabilizer 2000	14
1007137	FlatFix Fusion base profile 370mm	6
1007196	FlatFix Fusion base profile 1077mm	32
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	4
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	4
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	60

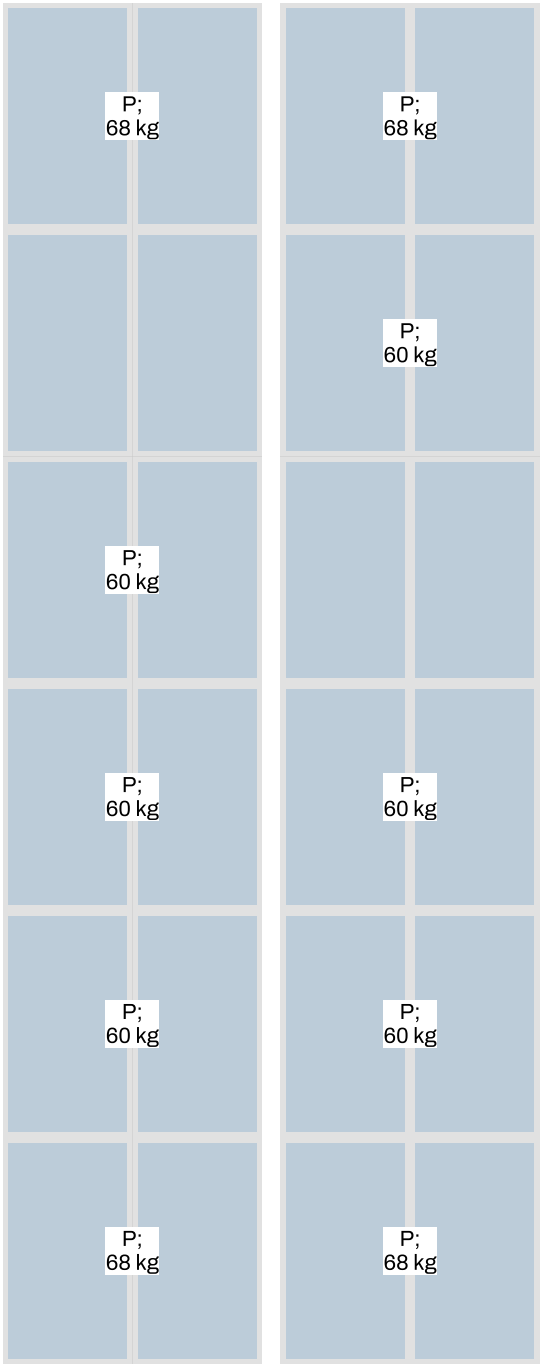
Segment 5

Panel count	24
Total power	12.720 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

Weight per ballast unit	4.0 kg
Number of ballast units	158

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	14
1000655	Mounting screw M6 x 55mm	56
1003022	Universal mid clamp with bonding	40
1004330	FlatFix end clamp 30mm	16
1007011	FlatFix Fusion base plate bracket	14
1007012	FlatFix Fusion base plate	56
1007022	FlatFix Fusion - Low base	28
1007031	FlatFix Fusion high base	14
1007042	MLPE Clip Lightweight up to 2kg	24
1007086	FlatFix Fusion ballast container 2000	10
1007087	FlatFix Fusion stabilizer 2000	12
1007137	FlatFix Fusion base profile 370mm	7
1007196	FlatFix Fusion base profile 1077mm	28
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	4
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	4
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	44

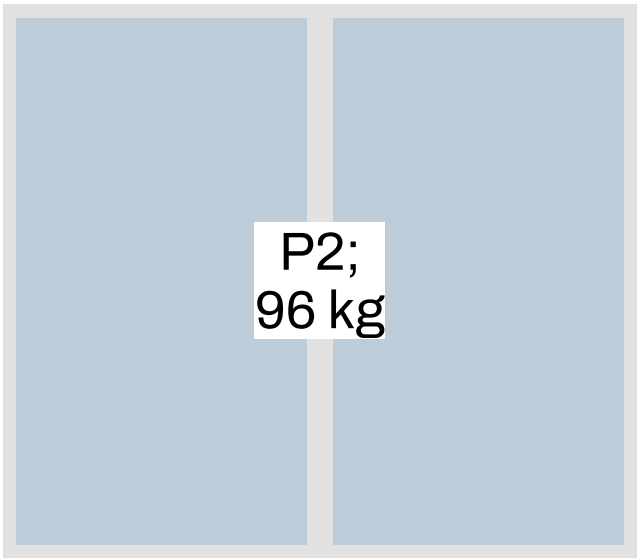
Segment 6

Panel count	2
Total power	1.060 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

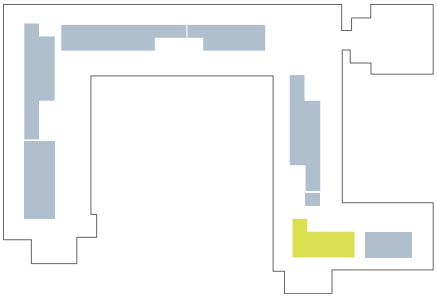
Weight per ballast unit	4.0 kg
Number of ballast units	24

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	2
1000655	Mounting screw M6 x 55mm	8
1004330	FlatFix end clamp 30mm	8
1007011	FlatFix Fusion base plate bracket	4
1007012	FlatFix Fusion base plate	10
1007022	FlatFix Fusion - Low base	4
1007031	FlatFix Fusion high base	2
1007042	MLPE Clip Lightweight up to 2kg	2
1007086	FlatFix Fusion ballast container 2000	2
1007087	FlatFix Fusion stabilizer 2000	1
1007196	FlatFix Fusion base profile 1077mm	4
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	2
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	2
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	16

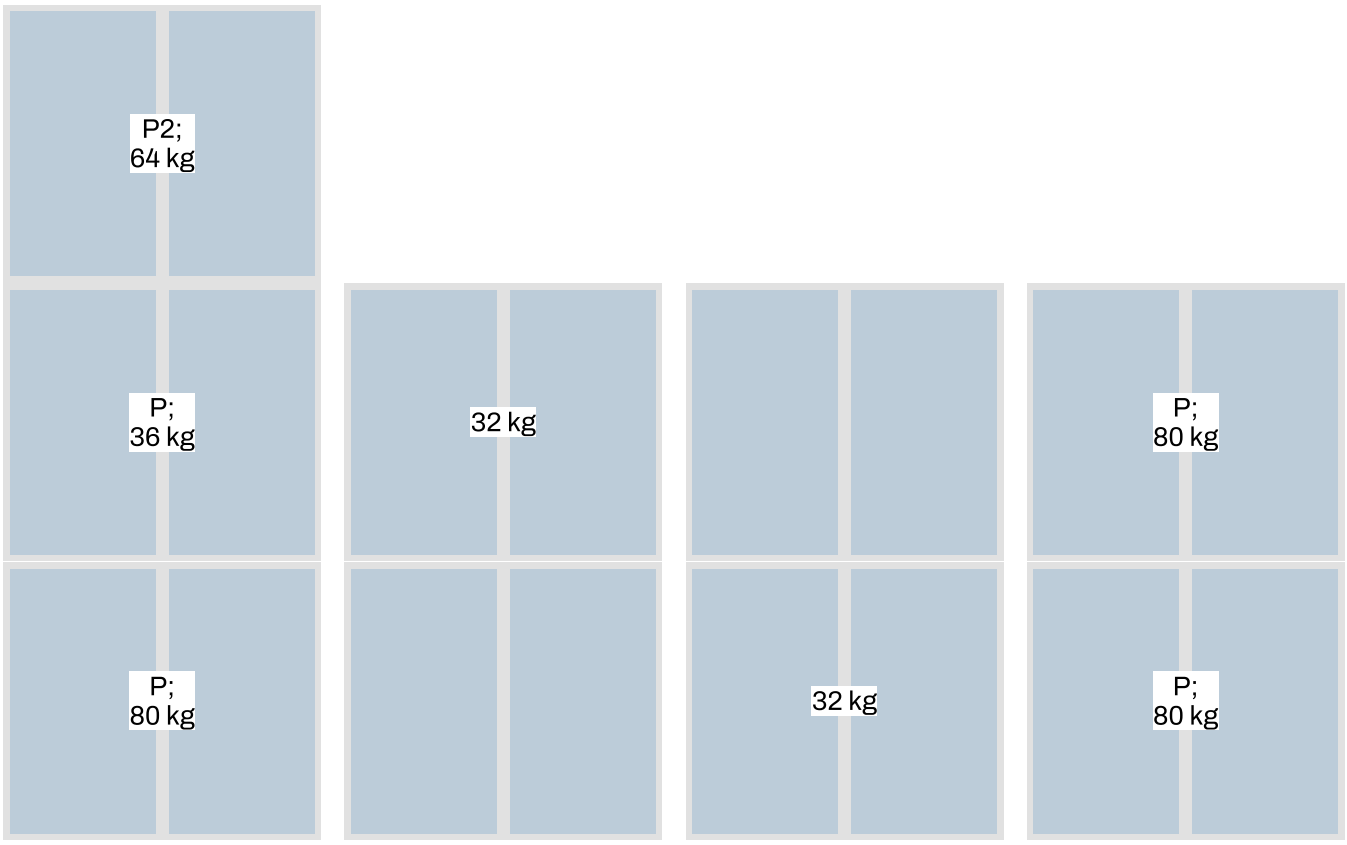
Segment 7

Panel count	18
Total power	9.540 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

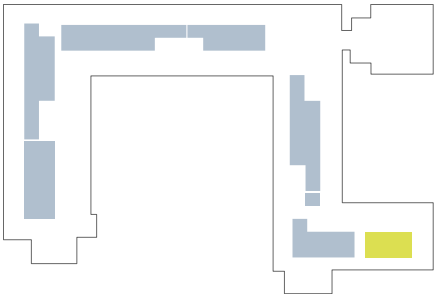
Weight per ballast unit	4.0 kg
Number of ballast units	101

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	13
1000655	Mounting screw M6 x 55mm	52
1003022	Universal mid clamp with bonding	20
1004330	FlatFix end clamp 30mm	32
1007011	FlatFix Fusion base plate bracket	9
1007012	FlatFix Fusion base plate	52
1007022	FlatFix Fusion - Low base	26
1007031	FlatFix Fusion high base	13
1007042	MLPE Clip Lightweight up to 2kg	18
1007086	FlatFix Fusion ballast container 2000	8
1007087	FlatFix Fusion stabilizer 2000	9
1007137	FlatFix Fusion base profile 370mm	9
1007196	FlatFix Fusion base profile 1077mm	26
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	8
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	8
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	50

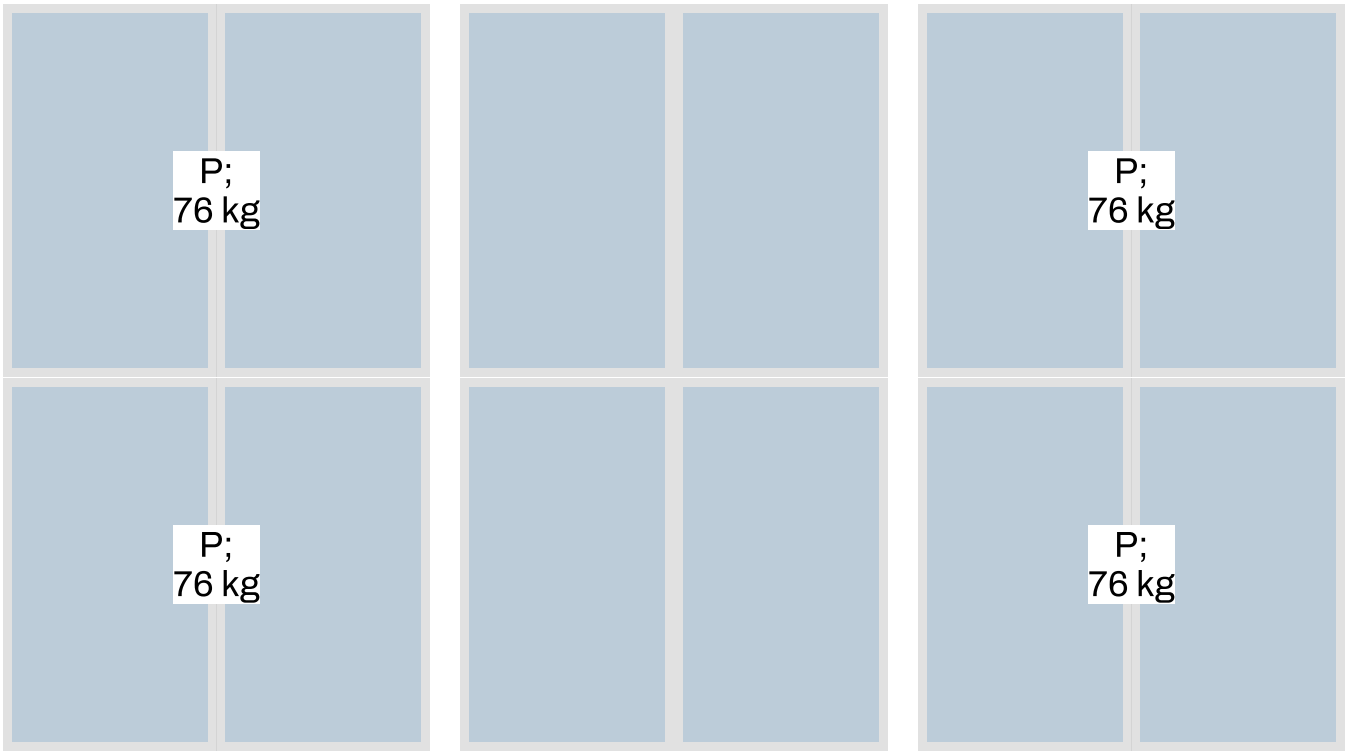
Segment 8

Panel count	12
Total power	6.360 kWp
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF



This assembly plan is applicable for the highlighted segments

Ballast



Check the manual for more information on the exact (perimeter) positions of the ballast containers.

Weight per ballast unit	4.0 kg
Number of ballast units	76

Materials

Article number	Description	Amount
1000612	Mounting screw M6 x 12mm	9
1000655	Mounting screw M6 x 55mm	36
1003022	Universal mid clamp with bonding	12
1004330	FlatFix end clamp 30mm	24
1007011	FlatFix Fusion base plate bracket	6
1007012	FlatFix Fusion base plate	33
1007022	FlatFix Fusion - Low base	18
1007031	FlatFix Fusion high base	9
1007042	MLPE Clip Lightweight up to 2kg	12
1007086	FlatFix Fusion ballast container 2000	4
1007087	FlatFix Fusion stabilizer 2000	6
1007137	FlatFix Fusion base profile 370mm	6
1007196	FlatFix Fusion base profile 1077mm	18
1007226	FlatFix Fusion wind deflector left (base profile 1030mm - 1077mm)	6
1007227	FlatFix Fusion wind deflector right (base profile 1030mm - 1077mm)	6
1008085	Self-tapping sheet metal screw 6,0x25 mm SW10 HEX/T30	36

Calculations

Input

Address	Cobbett House Manchester Royal Infirmary, Oxford Rd, Manchester M13 9WL, UK
Basic wind speed ($v_{b,map}$)	22.5 m/s*
Altitude factor (c_{alt})	1.04
Fundamental value of basic wind speed	23.4 m/s
Terrain category	Town*
Distance to coast	40.0 km*
Distance to city boundary	4.0 km (calculated with 4.0 km)*
Air density	1.23 kg/m³
Wind exposure factor (c_e)	2.54
Town terrain exposure correction factor ($c_{e,T}$)	0.88
Displacement height (h_{dis})	3.0 m
Orography factor	1.0
Wind pressure	644.75 N/m²
Snow zone	3*
Characteristic value of snow on the ground	0.39 kN/m²
Snow exposure factor C_e	1.0
Snow load form coefficient	1.0
Snow load on the roof	391.43 N/m²
Altitude above sea level	43.0 m*
Consequence class	CC2
Reference period	15 years
Roof height	14.0 m
Parapet height	900 mm
Edge zone depth	2.98 m
Roof pitch	0.0°
Roof area	1,699.4 m²
Roofing material	Bitumen insulated
Friction Coefficient	0.7
Roof orientation from north	-22.0°

High building safety factor	1.0
Panel model	JAM60D-42-530-LB-TS-BF
Panel dimensions	2063 mm x 1134 mm x 30 mm
Panel weight	28.8 kg
Panel count	158
Panel angle of inclination landscape	11.3°
Configuration	Dual
Orientation	Landscape
Row distance	2,534 mm
Grounding/bonding option	OFF
Segment count	8
Panel power	530 Wp
Total power	83.740 kWp

* Automatically determined based on the address.

Enstall's FlatFix Fusion calculation is certified by Peutz. The certificate show that Enstall has correctly applied the wind tunnel measurements for FlatFix Fusion, combined with results of mechanical lift tests and that all results have been correctly and safely processed in the Enstall calculator. The results of the studies and their translation into a method for calculating ballast have been tested against the standards CUR Recommendation 103: 2005, NEN 7250: 2021 and the Eurocodes EN 1990 and EN 1991-1-4 with their corresponding national annexes.

Roof loads

Total weight	9,489.67 kg
Total ballast weight	4,096.0 kg
Total system weight	843.27 kg
Total panel weight	4,550.4 kg
Number of ballast units (210mm x 105mm x 80mm)	1024
Roof area (gross)	1,699.4 m²
System area (projected area)	406.61 m²
Average load over roof area	5.58 kg/m²
Average load over system area	23.34 kg/m²
Max load over panel area	34.29 kg/m²
Max static point load (at base plate)	20.71 kPa*, 37.31 kg/base plate
Max dynamic point load (at base plate)	75.52 kPa*, 136.04 kg/base plate
Pressure on panel	447 Pa (SLS), 671 Pa (ULS)
Lift on panel	355 Pa (SLS), 532 Pa (ULS)

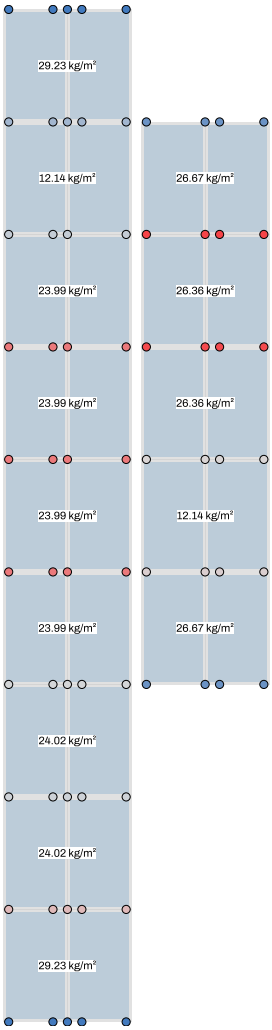
* Irregularities in the roof can cause deviating point pressures

Roof loads for segment 1

Total weight	1,681.83 kg
Total ballast weight	736.0 kg
Total system weight	139.43 kg
Total panel weight	806.4 kg
System area (projected area)	70.56 m²
Average roof load over system area	23.83 kg/m²
Max static point load (at base plate)	18.8 kPa*, 33.86 kg/base plate
Max dynamic point load (at base plate)	69.76 kPa*, 125.67 kg/base plate

* Irregularities in the roof can cause deviating point pressures

8.06 kPa  18.8 kPa

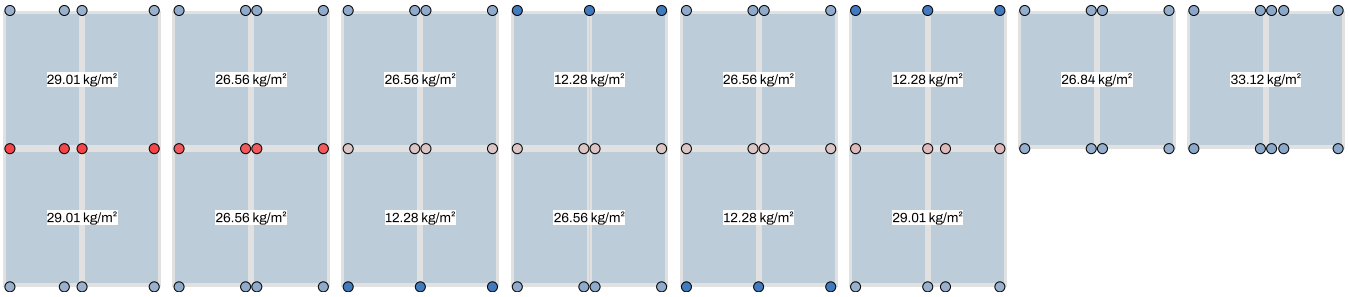


Roof loads for segment 2

Total weight	1,740.62 kg
Total ballast weight	768.0 kg
Total system weight	166.22 kg
Total panel weight	806.4 kg
System area (projected area)	74.0 m²
Average roof load over system area	23.52 kg/m²
Max static point load (at base plate)	20.71 kPa*, 37.31 kg/base plate
Max dynamic point load (at base plate)	72.35 kPa*, 130.33 kg/base plate

* Irregularities in the roof can cause deviating point pressures

6.05 kPa  20.71 kPa

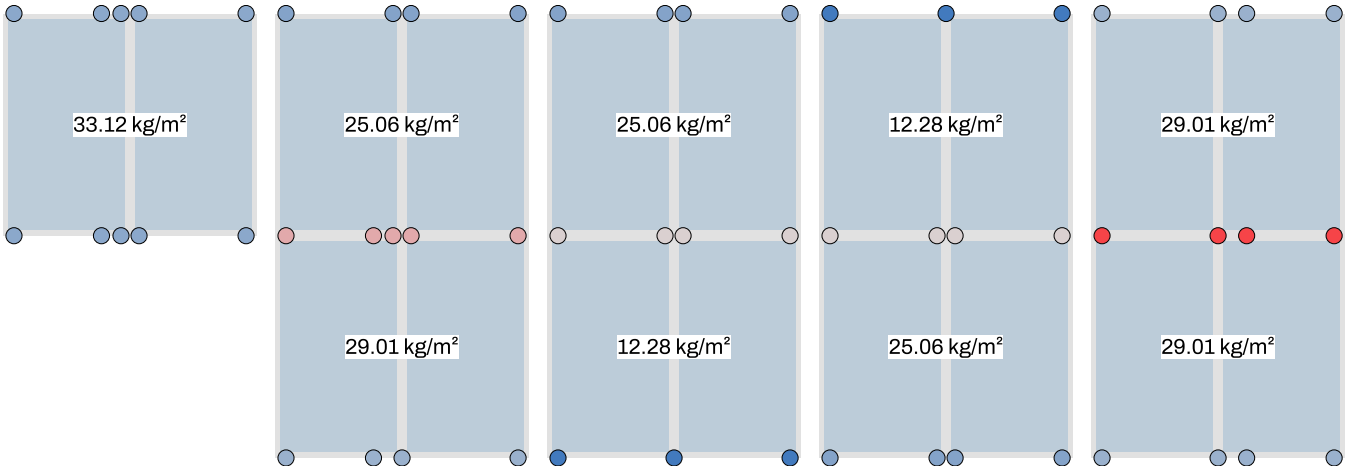


Roof loads for segment 3

Total weight	1,156.01 kg
Total ballast weight	528.0 kg
Total system weight	109.61 kg
Total panel weight	518.4 kg
System area (projected area)	47.29 m²
Average roof load over system area	24.44 kg/m²
Max static point load (at base plate)	20.71 kPa*, 37.31 kg/base plate
Max dynamic point load (at base plate)	72.35 kPa*, 130.33 kg/base plate

* Irregularities in the roof can cause deviating point pressures

6.05 kPa  20.71 kPa

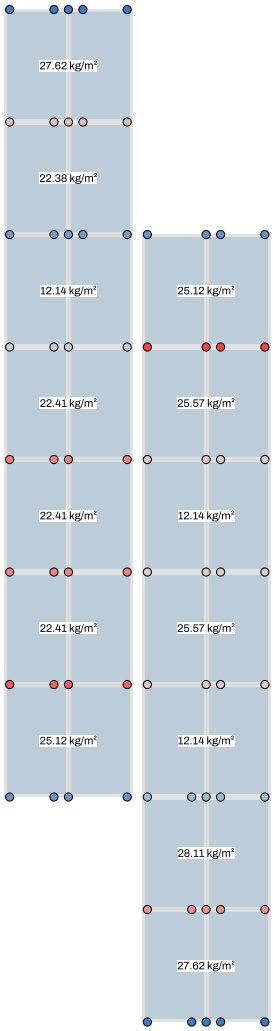


Roof loads for segment 4

Total weight	1,569.75 kg
Total ballast weight	628.0 kg
Total system weight	135.35 kg
Total panel weight	806.4 kg
System area (projected area)	70.56 m²
Average roof load over system area	22.25 kg/m²
Max static point load (at base plate)	17.96 kPa*, 32.36 kg/base plate
Max dynamic point load (at base plate)	68.64 kPa*, 123.65 kg/base plate

* Irregularities in the roof can cause deviating point pressures

7.61 kPa  17.96 kPa

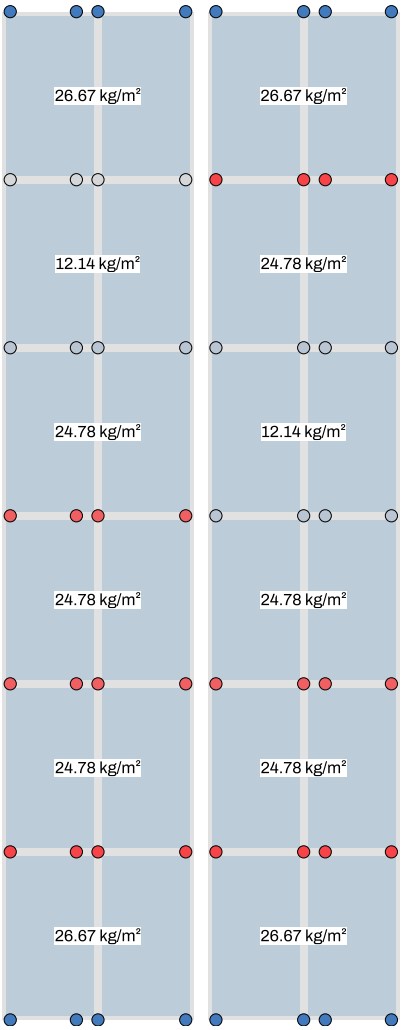


Roof loads for segment 5

Total weight	1,429.48 kg
Total ballast weight	632.0 kg
Total system weight	106.28 kg
Total panel weight	691.2 kg
System area (projected area)	61.14 m²
Average roof load over system area	23.38 kg/m²
Max static point load (at base plate)	18.24 kPa*, 32.86 kg/base plate
Max dynamic point load (at base plate)	69.02 kPa*, 124.32 kg/base plate

* Irregularities in the roof can cause deviating point pressures

9.52 kPa  18.24 kPa

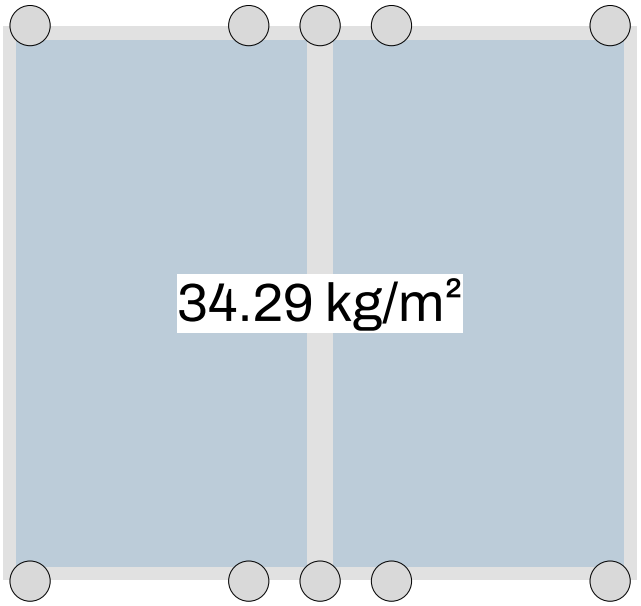


Roof loads for segment 6

Total weight	173.77 kg
Total ballast weight	96.0 kg
Total system weight	20.17 kg
Total panel weight	57.6 kg
System area (projected area)	5.04 m²
Average roof load over system area	34.49 kg/m²
Max static point load (at base plate)	9.59 kPa*, 17.27 kg/base plate
Max dynamic point load (at base plate)	30.7 kPa*, 55.3 kg/base plate

* Irregularities in the roof can cause deviating point pressures

9.59 kPa  9.59 kPa

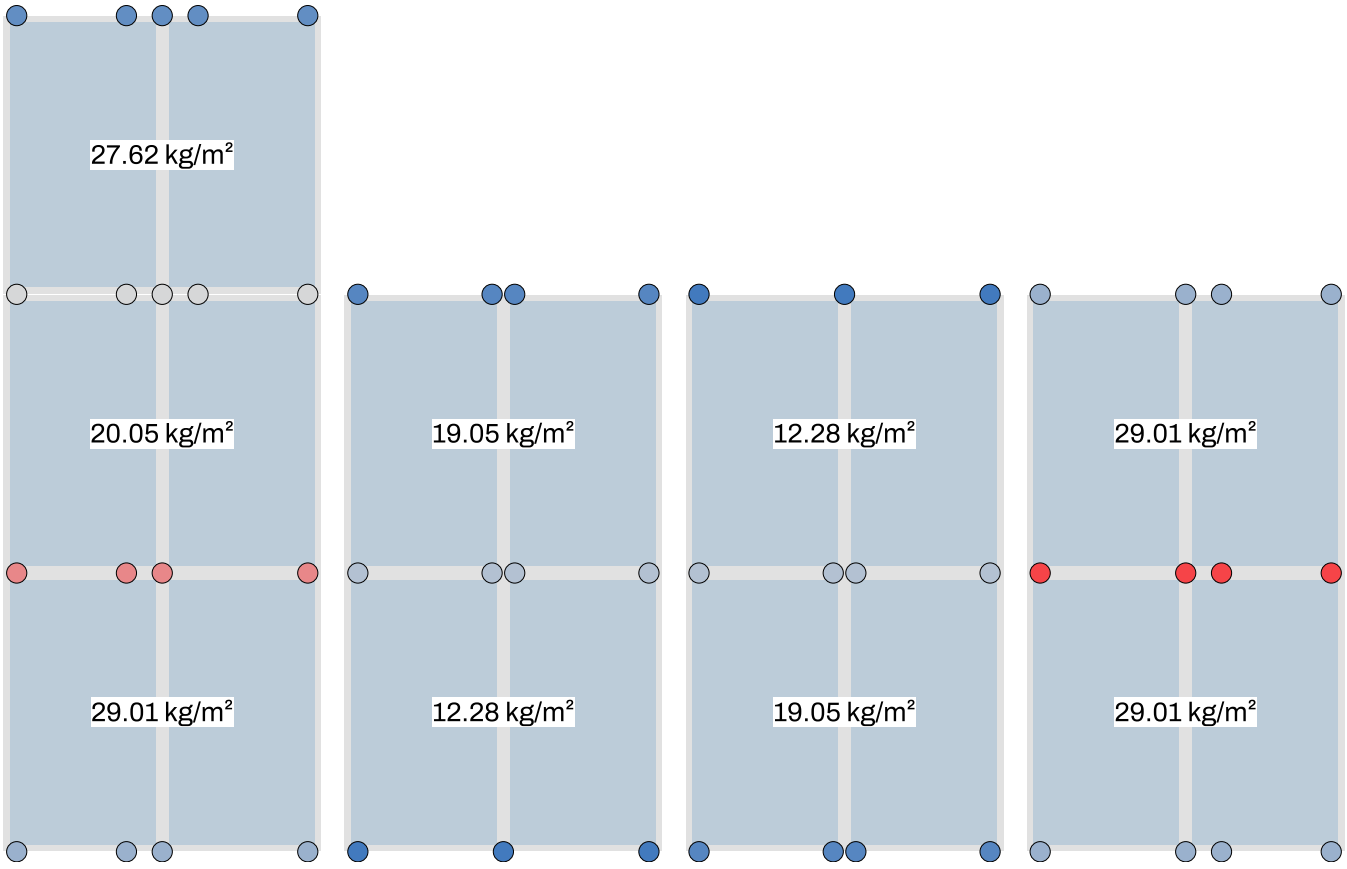


Roof loads for segment 7

Total weight	1,023.98 kg
Total ballast weight	404.0 kg
Total system weight	101.58 kg
Total panel weight	518.4 kg
System area (projected area)	46.78 m²
Average roof load over system area	21.89 kg/m²
Max static point load (at base plate)	20.71 kPa*, 37.31 kg/base plate
Max dynamic point load (at base plate)	72.35 kPa*, 130.33 kg/base plate

* Irregularities in the roof can cause deviating point pressures

6.05 kPa  20.71 kPa

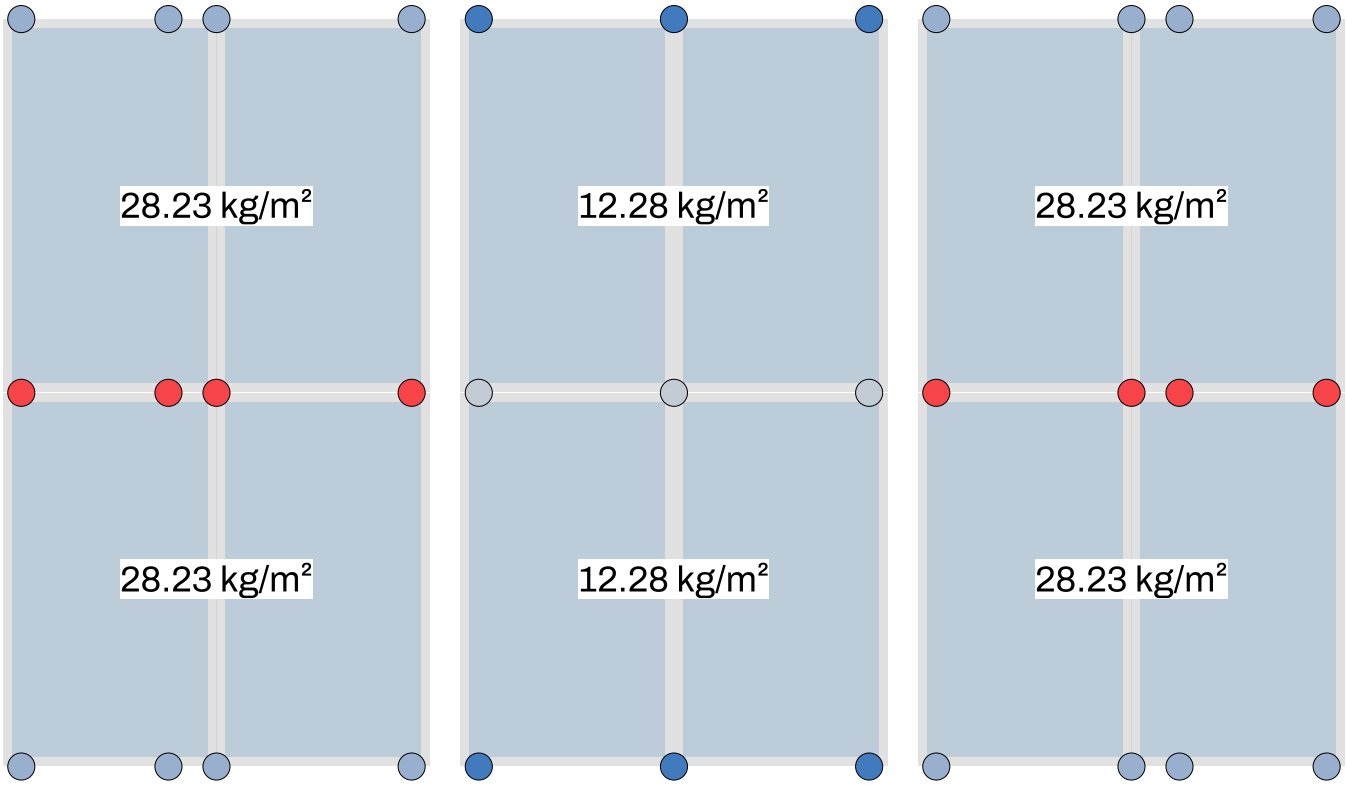


Roof loads for segment 8

Total weight	714.21 kg
Total ballast weight	304.0 kg
Total system weight	64.61 kg
Total panel weight	345.6 kg
System area (projected area)	31.24 m²
Average roof load over system area	22.87 kg/m²
Max static point load (at base plate)	20.16 kPa*, 36.31 kg/base plate
Max dynamic point load (at base plate)	75.52 kPa*, 136.04 kg/base plate

* Irregularities in the roof can cause deviating point pressures

6.05 kPa  20.16 kPa



Disclaimer

Please read this information carefully before starting with the design and installation of the PV system.

The output for the design of the PV system is generated by using the calculator tool made available through the website of Enstall Europe B.V. ("**Enstall**") at www.enstall.com (the "**Calculator**"). The responsibility for the correct application of the output derived from the Calculator lies with the user of the Calculator and/or the installer or any other person responsible for the installation of the PV system, which output may be subject to or impacted by many different variables and factors. The installation of a PV system onto an existing building can for example impact the existing building loads (e.g., as a result of snow and wind) or the building construction. To avoid personal injury and/or property damages, the installer or any other person responsible for the installation of a PV system should ensure that the static calculations applicable to the existing building are reviewed and confirmed beforehand by a qualified technician. Any applicable regulations, including (but not limited to) NEN 7250, EN 1990, EN 1991-1-3, EN 1991-1-4 and relevant national annexes, should be observed and adhered to. Failure to obtain such confirmation or observe and adhere to applicable regulations may, amongst others, lead to failure of the roof load-bearing structure of the building. It is advisable to consult with the insurer of the building in case of the intention to install a PV system or in case of any other intended changes to the building.

The installer or any other person responsible for the installation of a PV system should also consider, confirm or control applicable design elements which include (but are not limited to):

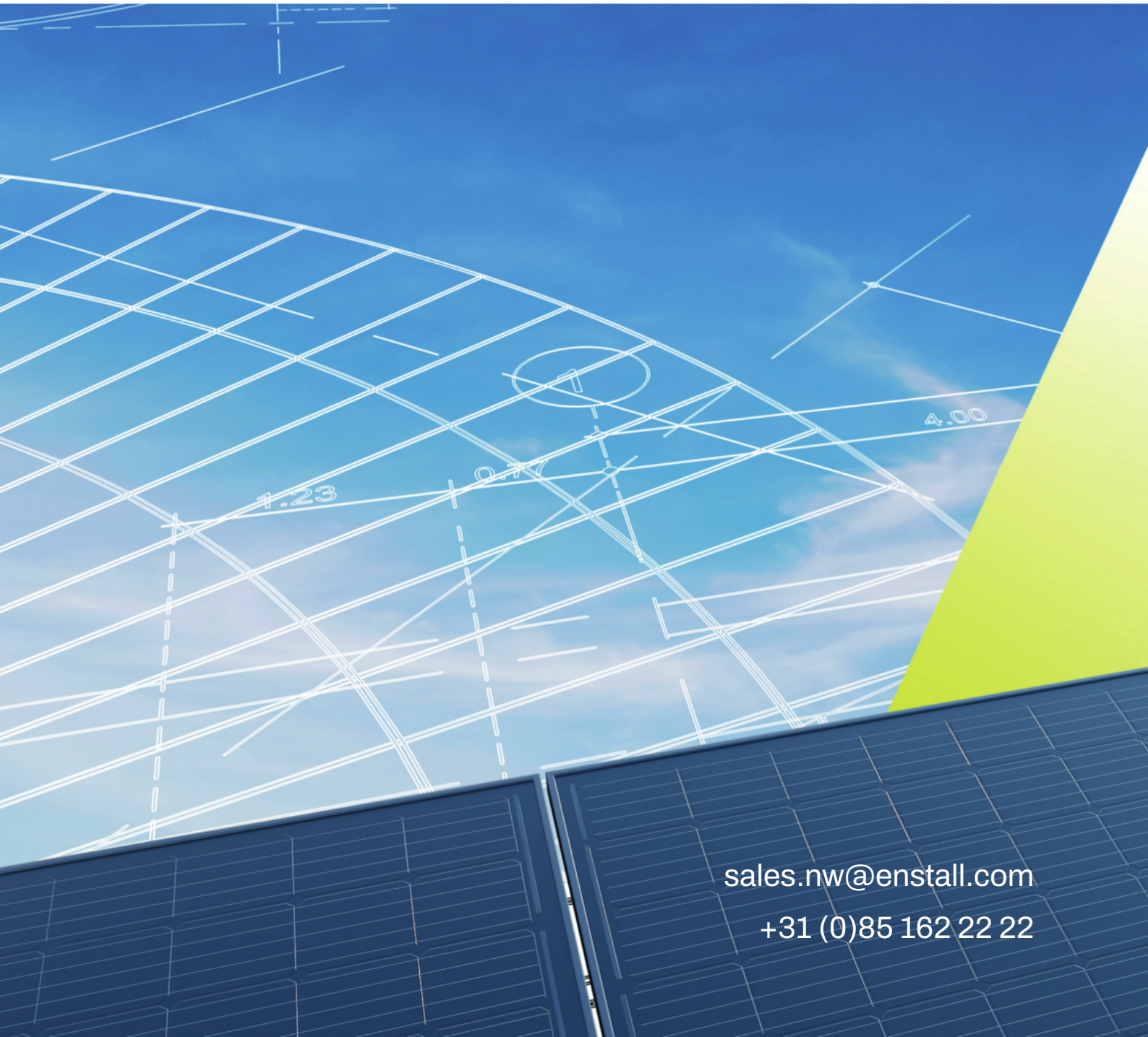
a. changes as a result of the additional weight of the complete PV system on the building;
b. changes as a result of the changed geometry of the building's roof;
c. changes as a result of the dynamic wind pressure and possible accumulation of rain or any other precipitation on the building;
d. the loads occurring during installation on the building, roofing material and insulation;
e. the compatibility of the insulation and roofing material at the location of the contact points of the long-term PV-system's support structure, as a result of the pressure point;
f. the compatibility of the roofing material in combination with the support structure at the location of the contact points;
g. the effect of thermal performance of the building on the PV system and vice versa; and/or
h. the effect of any movement and vibrations of the roof on the PV system and vice versa.

In addition, the installer or any other person responsible for the installation of a PV system should confirm the compatibility of any third party products, components or materials (including PV panels) used in conjunction with Enstall's products, if such third party products, components or materials have not been provided for such use by or on behalf of Enstall or the use of which has not been expressly authorized by Enstall. Reference to a third party product in the Calculator should not be deemed an express or implied authorization by Enstall. Enstall's products should always be used in accordance with instructions set out in the most recent version of the applicable manual, available via www.enstall.com.

Prices in the Calculator are indicative and are subject to change resulting from, amongst others, fluctuations in commodity prices.

To generate output from the Calculator Enstall relies solely on the input and information that was submitted by the user of the Calculator. Enstall is under no obligation to confirm or verify such input or information. Enstall assumes no responsibility or liability of any kind in relation to, or resulting from, such input and/or information, and/or any risks, consequences or damages (including, but not limited to, indirect or consequential losses) resulting from incorrect, inaccurate, or incomplete input and/or information that was submitted through the Calculator or resulting from the improper use of Enstall's products. Any such responsibilities and liabilities are solely for the account of the user of the Calculator and/or any other person responsible for the installation of a PV system, as applicable.

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